

DMVF Series Compact Fluorescent

Champ® Luminaires

Cl. I, Div. 2, Groups A, B, C, D
 Restricted Breathing Cl. I, Div. 2
 & Zone 2 (Suffix S826)
 Certified for IEC Zone 2
 (Suffix S826TB)

Cl. II, Groups E, F, G; Cl. III &
 Simultaneous Presence
 Marine & Wet Locations
 3, 3R, 4, 4X; IP66

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Applications:

DMVF Series Champ Luminaires are used:

- In areas made hazardous by abnormal conditions resulting in the presence of flammable vapors or gases
- In areas made hazardous by the presence of combustible dusts
- Where combustible dusts and flammable vapors are present simultaneously
- In marine applications where water spray and corrosive atmospheres are considerations
- On installations where vibration and rough usage are problematic
- Where a cool, efficient light source is required
- In areas that require lamps to reach full illumination immediately
- In refineries, chemical and petrochemical facilities, grain processing, handling or storage facilities, manufacturing plants, wastewater treatment plants, sewage treatment plants, oil terminals, food processing facilities, breweries, and any other manufacturing or processing facility where safe, reliable, hazardous area fluorescent or auxiliary lighting is needed

Standard Features:

- Housings made of die-cast copper-free aluminum (less than 0.4 of 1% copper) for strength and resistance to corrosion
- Mounting modules equipped with integral hub set screws for vibration resistance (ceiling, pendant, and quad mounts)
- Hubs are provided with an integral conduit stop and bushing to help prevent damage to field wiring during installation
- Epoxy powder finish and stainless steel external hardware for resistance to corrosion
- Long-life gaskets which provide seals between mounting module, housing, and optical assembly
- Grounding wire for safety
- Cool operating design
- Optional stainless steel open bottom guard permits direct access to the globe for easy relamping
- Optional battery pack ballast for auxiliary lighting

Certifications and Compliances:

- NEC and CEC:
 - Class I, Division 2, Groups A, B, C, D
 - Class II, Class III & Simultaneous Presence (Class I, Division 2 and Class II)
 - Class I, Zone 2
- IEC:
 - Zone 2 Ex nR IIC
- UL Standards:
 - 844 Hazardous (Classified) Locations
 - 1598 Luminaires
 - 1598A Marine Locations
- CSA Standards:
 - C22.2 No. 137
- IEC Standards:
 - 60079-15

Standard Materials:

- Ballast housings and mountings – copper-free aluminum (less than 0.4 of 1%)
- Exterior hardware and guards – stainless steel
- Reflectors – Krydon® fiberglass-reinforced polyester
- Globe – heat- and impact-resistant internally fluted glass

Standard Finishes:

- Aluminum – gray epoxy powder coat
- Krydon material – high reflectance white
- Stainless steel – natural

Options:

Description	Suffix
Restricted Breathing Construction	S826
Class I, Division 2 & Zone 2 Suitability	
Cooler Operating Temperatures (T-Numbers)	
Certified for IEC Zone 2 (Suffix S826TB)	S826TB
Furnished with	
Terminal Block	
Crimp Terminals	
Factory assembled with lamps installed for additional labor savings	FA
Fused – to protect ballast against abnormal line conditions (not available on CSA certified fixtures) (not suitable for marine applications)	S658
Lamps supplied with fixture.....	S714
Top hat with stainless steel threaded insert to attach ballast housing.....	S806
TEFLON® coating on globe for increased shatter protection.....	S808
Quick-Clip	S890



Accessories:

Reflectors (to be used with globe)

Type	Cat. #
Dome	RD739
30° Angle	RA739

To be ordered separately.

Energy Savings

- Less wattage used with compact fluorescent lamps compared to equivalent incandescent lamps providing the same light output

Electrical Rating Ranges:

- Wattage: Two 26, 32, or 42 watt lamps
- 120–277V, 50–60Hz
- 347V, 60Hz
- 12, 24, and 125VDC

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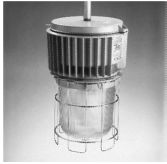

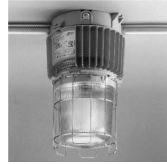


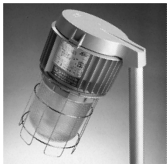

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Compact Fluorescent**

Champ® Luminaires

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Restricted Breathing Cl. I, Div. 2
& Zone 2 (Suffix S826)
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Simultaneous Presence
Marine & Wet Locations
3, 3R, 4, 4X; IP66

	Mounting Style	Hub Size (In.)	Luminaire Watts	DMVF Series Fluorescent with G303 Globe and P33 Guard Cat. #
	Pendant Mount	3/4	52	DMVF2A052GP
		1		DMVF3A052GP
		3/4	64	DMVF2A064GP
		1		DMVF3A064GP
		3/4	84	DMVF2A084GP
		1		DMVF3A084GP
	Flexible Pendant Mount	3/4	52	DMVF2HA052GP
		3/4	64	DMVF2HA064GP
		3/4	84	DMVF2HA084GP
	Ceiling Mount Thru-Feed	3/4	52	DMVF2C052GP
		1		DMVF3C052GP
		3/4	64	DMVF2C064GP
		1		DMVF3C064GP
		3/4	84	DMVF2C084GP
		1		DMVF3C084GP
	Wall Mount Thru-Feed	3/4	52	DMVF2TW052GP
		1		DMVF3TW052GP
		3/4	64	DMVF2TW064GP
		1		DMVF3TW064GP
		3/4	84	DMVF2TW084GP
		1		DMVF3TW084GP
	Quad-Mount Pendant, Adjustable Thru-Feed, 25° Angle, 12 1/2° Angle	3/4	52	DMVF25Q052GP
		3/4	64	DMVF25Q064GP
		3/4	84	DMVF25Q084GP
	Stanchion Mount 25° Angle	1 1/2	52	DMVFJ052GP
		1 1/2	64	DMVFJ064GP
		1 1/2	84	DMVFJ084GP
	Stanchion Mount Straight	1 1/2	52	DMVFP052GP
		1 1/2	64	DMVFP064GP
		1 1/2	84	DMVFP084GP

1. Catalog numbers are basic numbers. Voltages must be specified.

Voltage Suffix	STANDARD VOLTAGE BALLASTS		OPTIONAL BALLASTS		
	NEC/UL & CEC/CSA (cUL)	CEC/CSA (cUL)	125V DC /125VDC	12V DC /012VDC	24V DC /024VDC
	120-277V 50-60Hz /UNV	347V 60Hz /347			

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DMVF luminaires are available in components.

A complete luminaire consists of:

- I. Champ Cover (Mounting Module)
- II. DMVF Ballast Housing
- III. Globe, Globe Guard, Globe Reflectors

I. Champ Cover (Mounting Module):

Type	Conduit	Cat. #
Pendant Mount	3/4"	APM2
	1	APM3
Flexible Pendant	3/4"	HPM2
Ceiling	3/4"	CM2
	1	CM3
Wall	3/4"	TWM2
	1	TWM3
Stanchion - 25 Degree Angle	1 1/2"	JM5
Stanchion - Straight	1 1/2"	PM5
Quad-Mount	3/4"	QM25

II. Ballast Housings:

Complete catalog number must have the **voltage suffix** (UNV shown) and any **options suffixes**.

Lamp Type	Lamp Watts	Cat. #
Compact Fluorescent	2 (26W)	DMVF052/UNV
	2 (32W)	DMVF064/UNV
	2 (42W)	DMVF084/UNV

III. Globe, Guards and Reflectors:

Type	Cat. #
Globe	G303
Teflon Coated	G303S808
Globe Guard	P33
Globe Reflector-Dome	RD739
Globe Reflector-Angle	RA739



COVERS:

PENDANT

- APM2 3/4 IN.
- APM3 1 IN.
- HPM2 3/4 IN.

WALL

- TWM2 3/4 IN.
- TWM3 1 IN.

QUAD—MOUNT

- QM25 3/4 IN.

- CEILING
- CM2 3/4 IN.
 - CM3 1 IN.

STANCHION

- JM5 1 1/2 IN.
- PM5 1 1/2 IN.

HOUSING
DMV F

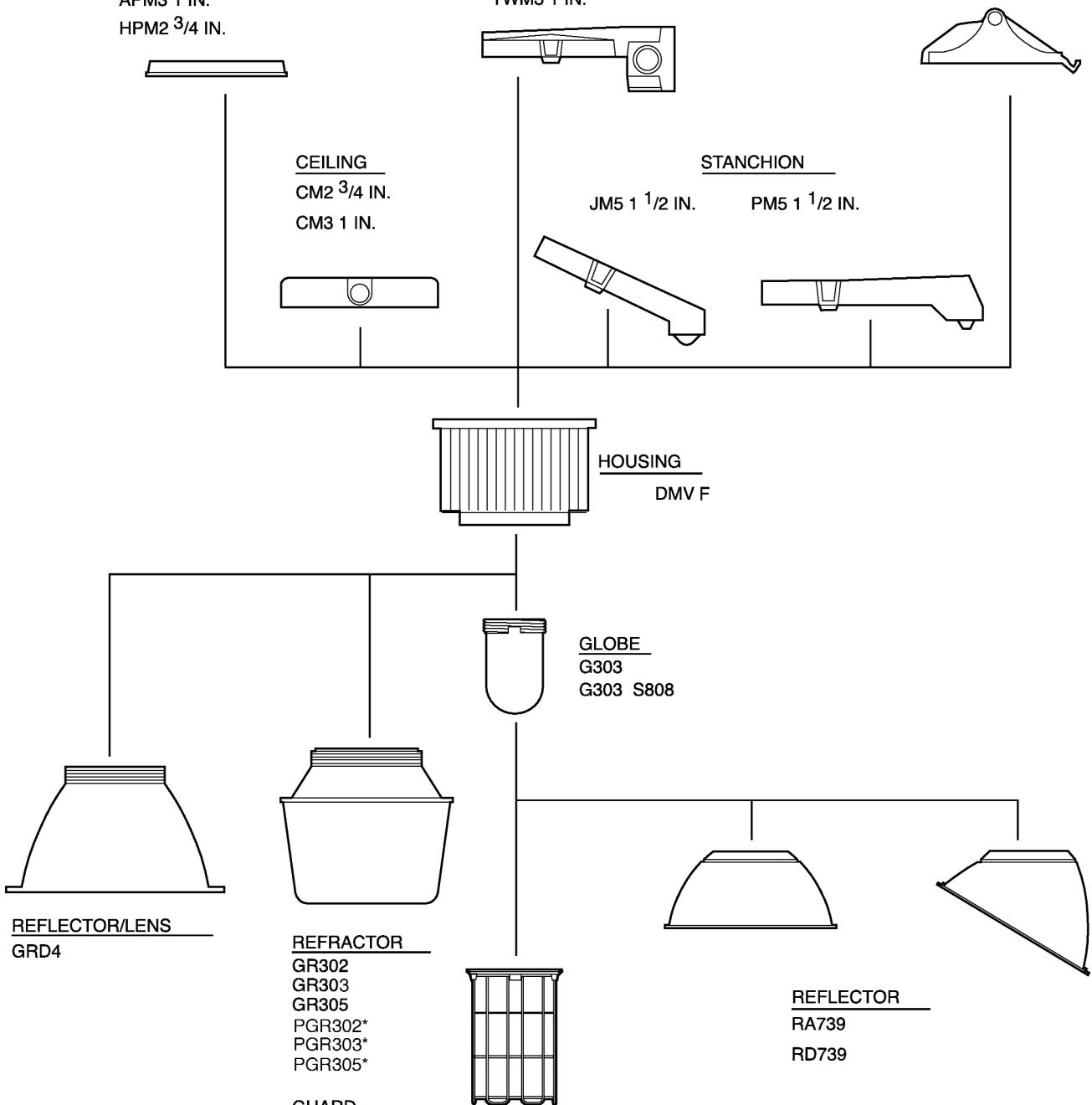
- GLOBE
- G303
 - G303 S808

REFLECTOR/LENS
GRD4

- REFRACTOR
- GR302
 - GR303
 - GR305
 - PGR302*
 - PGR303*
 - PGR305*

- GUARD
- P33

- REFLECTOR
- RA739
 - RD739



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*These plastic reflectors are for non-hazardous areas only (50-100W max).

DMVF Series Compact Fluorescent

Temperature Performance Data
Weights

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Champ® Luminaires

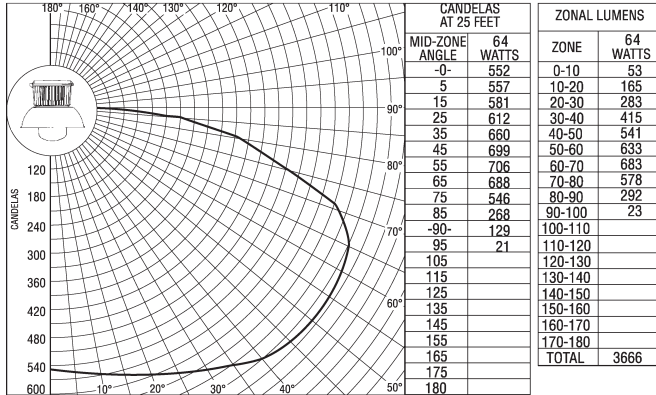
Temperature Performance Data:

Lamp Watts	Minimum Operating Temperature	Maximum Ambient Temp.	Class I		Class II	Simultaneous Presence		Supply Wire °C
			Non-restricted Breathing	Restricted Breathing		Non-restricted Breathing	Restricted Breathing	
Fluorescent:	DMVF		Div. 2	Zone 2 or Div. 2	Division 1	Cl. I, Div. 2/Cl. II	Cl. I, Zone 2 or Div. 2/Cl. II	
52 Watt	-20°C (4°F)	40°C (104°F)	T3	T6	T6	T3/T6	T6	60
64 Watt	-20°C (4°F)	40°C (104°F)	T3	T6	T6	T3/T6	T6	60
84 Watt	-20°C (4°F)	40°C (104°F)	T3	T6	T6	T3/T6	T6	60

Net Luminaire Weights:

Luminaire Series	Lamp Watts	Luminaire with Globe, Guard (lbs.)
DMVF	52, 64, 84	18¼
Type		
Add for mounting modules:		
Pendant		1¼
Flexible Pendant		1½
Ceiling		2¾
Wall		4½
Quad-Mount		3½
Angle Stanchion		3½
Straight Stanchion		4½
Add for reflectors:		
Dome	1¼ 30° Angle	1¾
Deduct: 1 lb. for luminaire with P33 Guard		

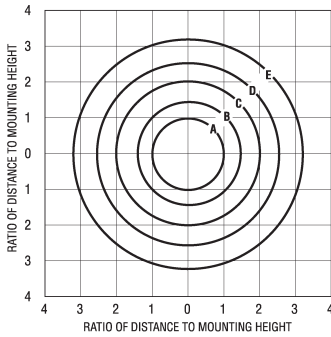
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Note: For 52 watt DMVF applications, use a .75 multiplier.
For complete 84W IES files, please log onto www.crouse-hinds.com and go to Resources > Specification and Design Support > Photometric Files.

DMVF Photometric Data

Isofootcandle Chart:
Luminaire with globe and dome reflector
DMVF064GRD Dome Reflector



DMVF064GRD Dome Reflector

Coefficient of Utilization

Effective Floor Cavity Reflectance 20%

Eff. Ceil.	Wall	Room Cavity Ratio									
		1	2	3	4	5	6	7	8	9	10
80*	50*	.741	.617	.524	.452	.396	.351	.314	.283	.258	.236
	30*	.694	.548	.445	.370	.314	.271	.237	.210	.188	.169
	10*	.652	.491	.382	.308	.254	.214	.183	.159	.140	.125
70*	50*	.722	.601	.510	.440	.386	.342	.307	.277	.252	.231
	30*	.679	.537	.437	.364	.309	.267	.234	.207	.185	.167
	10*	.640	.483	.378	.305	.252	.212	.182	.158	.139	.124
50*	50*	.686	.570	.484	.418	.367	.326	.293	.265	.242	.223
	30*	.650	.516	.421	.351	.299	.259	.227	.202	.181	.163
	10*	.617	.470	.369	.299	.247	.209	.180	.155	.138	.123
30*	50*	.653	.542	.460	.398	.350	.311	.280	.254	.233	.214
	30*	.623	.497	.406	.340	.290	.251	.221	.197	.176	.160
	10*	.596	.457	.361	.293	.243	.206	.177	.154	.136	.121
10*	50*	.622	.516	.437	.379	.333	.297	.268	.244	.224	.206
	30*	.598	.478	.392	.329	.271	.244	.215	.192	.172	.156
0*	10*	.576	.444	.352	.287	.239	.203	.175	.152	.135	.120
0*	0*	.557	.424	.332	.267	.220	.184	.157	.136	.119	.105

*Percent Reflectance.

Footcandle Values for Isofootcandle Lines

Mtg. Hgt.	A	B	C	D	E
8'	4.00	2.00	1.00	0.50	0.25
10'	2.56	1.28	0.64	0.32	0.16
12'	1.78	0.89	0.44	0.22	0.11
16'	1.00	0.50	0.25	0.13	0.06

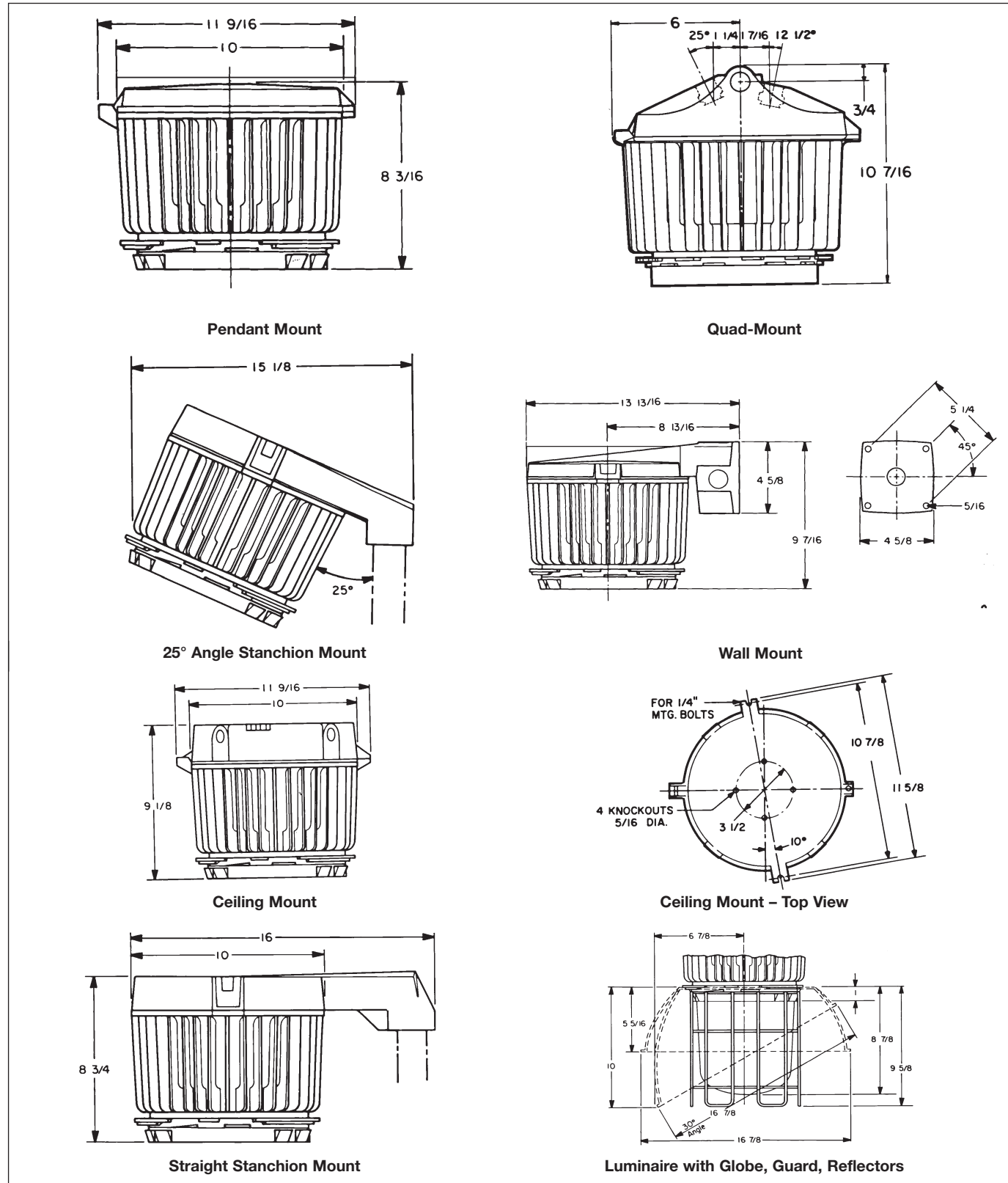
DMVF Series Compact Fluorescent

Dimensions

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Champ® Luminaires

Dimensions In Inches:



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